

## DEPARTMENT OF WATER RESOURCES

**FALL GROUNDWATER ELEVATION MEASUREMENTS**

NORTHERN SACRAMENTO VALLEY &amp; REDDING BASINS, CALIFORNIA

**CHANGE IN GROUNDWATER ELEVATION  
BY WELL USE**

FALL 2008 to FALL 2009

	All Well Depths	Well Use			
		Domestic	Irrigation	Observation	Other
<b>BUTTE</b>					
Maximum Increase in GWE* (ft)	12.6	4.5	11.4	12.6	0.8
Maximum Decrease in GWE (ft)	-7.3	-5.9	-7.3	-5.4	-1.4
Average GWL Change (ft)	0.2	-0.5	1	0.1	-0.6
Range of GWL Change (ft)	19.9	10.4	18.7	18.0	2.2
Number of Wells	102	19	31	42	10
<b>COLUSA</b>					
Maximum Increase in GWE* (ft)	10.9	1.6	2.4	8.4	10.9
Maximum Decrease in GWE (ft)	-17.1	-17.1	-10.8	-13.7	-8.3
Average GWL Change (ft)	-2.2	-2.2	-2.4	-2.5	-2.1
Range of GWL Change (ft)	28.0	18.7	13.2	22.1	19.2
Number of Wells	48	15	13	8	12
<b>GLENN</b>					
Maximum Increase in GWE* (ft)	14.3	2.9	4.7	14.3	4.4
Maximum Decrease in GWE (ft)	-25.7	-12.1	-8.7	-25.7	-15.8
Average GWL Change (ft)	-1.9	-1.5	-1.4	-2.1	-2.5
Range of GWL Change (ft)	40.0	15.0	13.4	40.0	20.2
Number of Wells	141	23	35	76	7
<b>TEHAMA</b>					
Maximum Increase in GWE* (ft)	9.3	3.3	8.2	9.3	3.2
Maximum Decrease in GWE (ft)	-8.6	-8.6	-7.1	-4.6	-7.1
Average GWL Change (ft)	0.2	-0.4	0.8	0.2	-0.6
Range of GWL Change (ft)	17.9	11.9	15.3	13.9	10.3
Number of Wells	158	47	54	50	7
<b>REDDING BASIN</b>					
Maximum Increase in GWE* (ft)	9.1	0.1	9.1	2.9	0.8
Maximum Decrease in GWE (ft)	-3.7	-1.4	-2.3	-3.1	-3.7
Average GWL Change (ft)	-0.3	-0.8	1.2	-0.5	-0.6
Range of GWL Change (ft)	12.8	1.5	11.4	6.0	4.5
Number of Wells	29	4	5	15	5
<b>TOTAL</b>					
Maximum Increase in GWE* (ft)	14.3	4.5	11.4	14.3	10.9
Maximum Decrease in GWE (ft)	-25.7	-17.1	-10.8	-25.7	-15.8
Average GWL Change (ft)	-0.7	-0.9	0.0	-0.9	-1.4
Range of GWL Change (ft)	40.0	21.6	22.2	40.0	26.7
Number of Wells	478	108	138	191	41

**Note:** A positive number indicates that groundwater levels were higher in 2009 than in 2008; a negative number indicates that groundwater levels were lower in 2009 than in 2008.

\*GWE=Groundwater Elevation